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ANSWER 13 OF 32 CAPLUS COPYRIGHT 2007 ACS on STN
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    131:158089
ΤI
    Method for purification of isocyanatoalkyl (meth)acrylate substantially
    free from chlorine by distillation and dechlorination using epoxy compound
IN
    Misu, Naoaki; Matsuhira, Shinya; Kihara, Muneyo; Ohnishi, Yutaka
    Showa Denko K. K., Japan
PΑ
    Jpn. Kokai Tokkyo Koho, 7 pp.
SO
    CODEN: JKXXAF
DT
    Patent
                                                                         ABSTRACT
    Japanese
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                                          APPLICATION NO.
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    JP 11228523
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    CA 2261324
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    EP 936214
                        A2
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                                          EP 1999-102318
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    EP 936214
                        A3
                               19990825
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
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                                          US 1999-245707
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PRAI JP 1998-25493
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    Isocyanatoalkyl (meta)acrylates substantially free from hydrolytic
AB
    chlorine are prepared by purification which involves treatment of (A)
    isocyanatoalkyl acrylate containing isocyanatoalkyl 2-chloropropionate or (B)
    isocyanatoalkyl methacrylate containing isocyanatoalkyl 2-methyl-2-
    chloropropionate with an epoxy-containing compound and amine/or imidazole until
    isocyanatoalkyl 2-chloropropionate or 2-methyl-2-chloropropionate is no
    longer present. The purified isocyanatoalkyl (meta)acrylate is useful as
    a raw material for photoresists (active ray-curable resins) suitable for
    electronic or elec. parts which is not compatible with chlorine. Thus,
    2-isocyanatoethyl methacrylate (I) containing 381 ppm hydrolytic chlorine 300,
    epoxidized fatty plasticizer (mol. weight .apprx.100 and iodine value 7)
    containing 6.1% oxirane oxygen 1.7, 2,6-di-tert-butyl-4-methylphenol 0.3, and
    triethylenetetramine 0.11 g were stirred in a glass reaction vessel at
    60° and .apprx.1.3 kPa and distilled at 85° to give 220 g I
    containing 29 ppm hydrolytic chlorine. Phenothiazine (0.15 g) was added the
    purified I (150 g) and the resulting mixture was distilled at 70°
     (column bottom temperature 81°) and .apprx.0.7 kPa with a series of two
    glass columns packed with Dixon packings to give 53 g I in which no
    hydrolytic chlorine was detected.
    30674-80-7P, 2-Isocyanatoethyl methacrylate
IT
    RL: PUR (Purification or recovery); TEM (Technical or engineered material
    use); PREP (Preparation); USES (Uses)
        (purification of isocyanatoalkyl (meth)acrylate as monomers substantially
       free from chlorine by distillation and dechlorination using epoxy compound
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amine)

and

RN 30674-80-7 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-isocyanatoethyl ester (CA INDEX NAME)